SRT-N118

IR remote controller
SIR-15

Remote controller is not a part of the device and is available on request as optional accessory.

- **temperature meter in wall-mounted IP 65 case**
- **input: thermoresistance or thermocouple**
- **0 or 2 relay (or OC) outputs**
- **isolated current output (option)**
- **power supply output: 24V DC**
- **RS-485 / Modbus RTU**
- **automatic compensation of TC cold ends temperature**

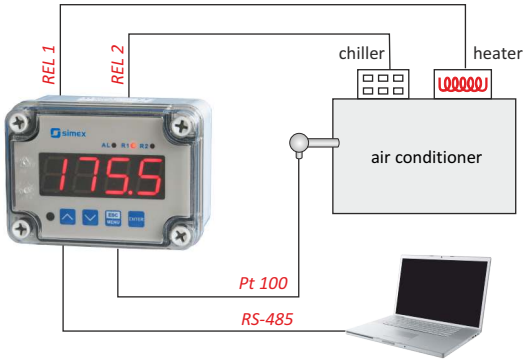
The **SRT-N118** temperature meter features easy operation, functional programming menu and a clear 4-digit, 20 mm high LED display. Tight case with high protection class (IP 65) makes it an ideal choice for heavy-duty applications. Relay (or OC) outputs enable adjustment of the level of the measured signal. These outputs can be controlled according to one or two threshold values. The settings can be changed without opening the tight case, by an infrared remote control.

TECHNICAL DATA

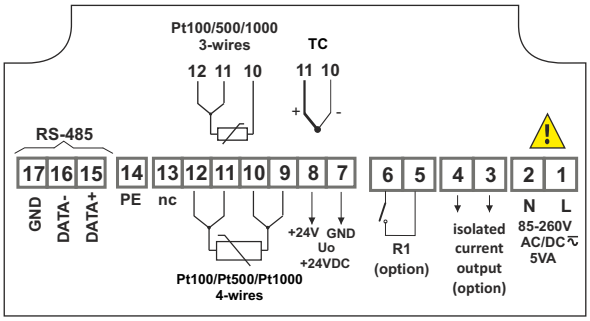
Power supply / Power consumption	19V ÷ 50V DC; 16V ÷ 35V AC or 85 ÷ 260V AC/DC, all separated; for 85 ÷ 260V AC/DC and 16V ÷ 35V AC power supply: max. 5 VA; for 19V ÷ 50V DC power supply: max. 5 W
Display	LED, 4 x 20 mm high, red (green - on request), brightness adjustable in 8 steps
Displayed values	-999 ÷ 9999 + decimal point
Input	thermoresistance: Pt100, Pt500, Pt1000 (automatic recognition of 3 and 4-conductor connection, resistance compensation of connecting conductors from 0 to 20 Ω at any conductor); measuring range: -100°C ÷ 600°C; resolution: 0,1°C thermocouple: type K, S, J, T, N, R, B, E; measuring range: **K**: -200°C ÷ +1370°C; **S**: -50°C ÷ +1768°C; **J**: -210°C ÷ +1200°C; **T**: -200°C ÷ +400°C; **N**: -200°C ÷ +1300°C; **R**: -50°C ÷ +1768°C; **B**: +250°C ÷ +1820°C; **E**: -200°C ÷ +1000°C; resolution: 1°C, additional range -10 ÷ +90 mV
Accuracy	0,1% @25°C ± one digit
Stability	50 ppm/°C
Outputs (option)	0 or 2 x REL I_{max}=1A, U_{max}=30VDC/250VAC (cosø=1) or OC I_{max}=30mA, U_{max}=30VDC, P_{max}=100mW
Passive current output (option)	0 or 1, isolated, operating range max. 2.8 ÷ 24 mA, resolution 12 bits (available with 1 relay or OC output, see ordering)
Power supply output	24V DC +5%, -10% / max. 100 mA, stabilized
Communication interface	RS-485, 8N1 and 8N2, 1200 bit/s ÷ 115200 bit/s, Modbus RTU (not galvanically isolated)
Operating temp.	0°C ÷ +50°C (standard), -20°C ÷ +50°C (option)
Storage temp.	-10°C ÷ +70°C (standard), -20°C ÷ +70°C (depending on option)
Protection class	IP 65
Case	wall-mounted; material: ABS + fibreglass
Dimensions (WxHxD)	without glands: 110 x 80 x 67 mm; with glands: 110 x 105 x 67 mm
Weight	max. 350 g

TYPICAL APPLICATIONS

1. Temperature measurement in the air conditioner, featuring chiller and heater control in the circulating system.
2. Can be installed in any place where the control cabinets are not necessary and in high humidity / dustiness environments.



EXAMPLARY PIN ASSIGNMENT



version with relay and current output

ORDERING

SRT-N118-1XXX-1-X-XX1

type of input:
3 : thermoresistance
A : thermocouple

number of outputs:
0
2

type of outputs:
0 : no output
1 : 2 x REL
2 : 2 x OC
9 : 1 x REL + 1 x current output
A : 1 x OC + 1 x current output

options:
00 : no options
08 : operating temp. -20°C ÷ +50°C

power supply:
3 : 24V AC/DC
4 : 85V - 260V AC/DC

ACCESSORIES

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